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PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0551-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	Unassigned 10/623,862
		Filing Date	Herewith 7/17/03
		First Named Inventor	CALVO GANAN, ALFONSO
		Group Art Unit	Unassigned 3743
		Examiner Name	Unassigned
Sheet 1 of 5 pgs	Attorney Docket Number	AERX-063CON3	

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Documents		Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, columns, lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
A1	A1	173,194		Wallace	02/08/1876	
	A2	442,785		Schoettl	12/06/1890	
	A3	445,579		Weldon	02/03/1891	
	A4	1,296,709		M.C. Steese	03/11/1919	
	A5	3,463,404		J. L. Jennings	08/26/1969	
	A6	3,661,304		Martinez	05/1972	
	A7	3,700,170		Blanka et al.	10/24/72	
	A8	3,804,255		Speece	04/16/74	
	A9	4,125,225		Venghiattis	02/1979	
	A10	4,141,055		Berry et al.	02/20/79	
	A11	4,162,282		Fulwyler et al.	07/24/79	
	A12	4,268,460		Boiarski et al.	05/19/1981	
	A13	4,347,935		Merrill	09/07/82	
	A14	4,352,789		Thiel	10/05/82	
	A15	4,363,446		Jaeggli et al.	12/14/82	
	A16	4,444,961		Timm	04/24/84	
	A17	4,603,671		Yoshinaga et al.	08/05/86	
	A18	4,617,898		Gayler	11/1986	
	A19	4,620,670		Hughes	10/21/86	
	A20	4,628,040		Green et al.	12/09/86	
	A21	4,662,338		Itoh et al.	05/05/87	
	A22	4,717,049		Green et al.	01/05/88	
	A23	4,781,968		Kellerman	11/01/88	
	A24	4,801,411		Wellinghoff et al.	01/1989	
	A25	4,880,164		Noordmeer	11/1989	
	A26	4,917,857		Jaeckel	04/17/90	

A27	4,933,105	Fong	06/1990
A28	5,020,498	Carlton et al.	10/1991
A29	5,052,618	Linder et al.	06/04/91
A30	5,077,176	Baggio et al.	12/31/91
A31	5,087,292	Garrido	02/11/92
A32	5,165,602	Amout et al.	11/1992
A33	5,174,247	Tosa et al.	12/29/92
A34	5,180,465	Seki et al.	01/19/93
A35	5,188,290	Gebauer et al.	002/1993
A36	5,194,915	Gilby	03/16/93
A37	5,230,850	Lewis	07/27/93
A38	5,364,632	Benita et al.	11/15/94
A39	5,364,838	Rubsamen	11/15/94
A40	5,372,867	Hasegawa et al.	12/13/94
A41	5,397,001	Yoon et al.	03/14/95
A42	5,404,871	Goodman et al.	04/11/95
A43	5,458,292	Hapeman	10/17/95
A44	5,464,157	Bourdoulous et al.	11/1995
A45	5,522,385	Lloyd et al.	06/04/96
A46	5,554,646	Cook et al.	09/10/96
A47	5,597,491	Winkler	01/28/97
A48	5,680,993	McCracken et al.	10/1997
A49	5,697,341	Ausman et al.	12/16/97
A50	5,725,153	Wang et al.	03/1998
A51	5,740,794	Smith et al.	04/21/98
A52	5,752,663	Fischer et al.	05/1998
A53	5,775,320	Patton et al.	07/07/98
A54	5,799,711	Heinonen et al.	-09/01/98
A55	5,868,322	Loucks, Jr. et al.	02/1999
A56	5,884,846	Tan	03/23/99
A57	5,906,198	Flickinger	05/25/99
A58	5,994,029	Brenn et al.	11/1999
A59	6,116,516	Ganan-Calvo	09/12/00
A60	6,119,953	Ganan-Calvo et al.	09/19/00
A61	6,174,469	Ganan-Calvo	01/16/01
A62	6,187,214	Ganan-Calvo	02/13/01
A63	6,189,803	Ganan-Calvo	02/20/01



A64	6,196,525		Ganan-Calvo	03/06/01	
A65	6,197,835		Ganan-Calvo	03/06/01	
A66	6,234,402		Ganan-Calvo	05/22/01	
A67	6,241,159		Ganan-Calvo et al.	06/05/01	
A68	6,248,378		Ganan-Calvo	06/19/01	
A69	6,299,145		Ganan-Calvo	6,299,145	
A70	6,357,670		Ganan-Calvo	03/19/02	
A71	6,386,463		Ganan-Calvo	05/14/02	
A72	6,394,429		Ganan-Calvo	05/28/02	
A73	6,405,936		Ganan-Calvo	06/18/02	
A74	6,432,148		Ganan-Calvo	08/13/02	

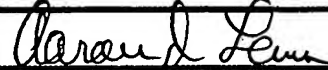
FOREIGN PATENT DOCUMENTS								
Examiner Initials ¹	Cite No. ¹	Foreign Patent Documents			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ^o
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
A64	B1	WO	90/05583		PCT	05/31/90		
	B2	WO	91/18682		PCT	12/12/91		
	B3	WO	94/11116		PCT	05/26/94		
	B4	WO	94/23129		PCT	10/13/94		
	B5	WO	95/23030		PCT	08/31/95		
	B6	WO	96/16326		PCT	05/30/96		
	B7	WO	97/43048		PCT	11/20/97		
	B8	WO	97/44080		PCT	11/27/97		
	B9	CH	563807		Switzerland	07/15/75		
	B10	DE	4031262A1		Germany	04/09/92		
	B11		0 249 186 A1		Europe	12/16/87		
	B12		0 250 164 A2		Europe	12/23/87		
	B13	GB	2099078A		Great Britain	12/01/92		
	B14	GB	2255291A		Great Britain	11/04/92		
	B15	JP	03169331		Japan (Abstract)	07/23/91		
	B16	JP	59174561A		Japan (Abstract)	10/03/84		
	B17	EP	0 899 017 A1		European	03/03/99		
	B18	WO	99/30812		PCT	06/24/99		
	B19	WO	99/30831		PCT	06/24/99		
	B20	WO	99/30832		PCT	06/24/99		

B21	WO	99/30833	PCT	06/24/99		
B22	WO	99/30834	PCT	06/24/99		
B23	WO	99/30835	PCT	06/24/99		
B24	WO	99/31019	PCT	06/24/99		
B25	WO	01/45519A1	PCT	06/28/01		



OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
AGP	C1	Bowden et al., <i>Science</i> 276:233-5 (1997)	
	C2	Brenn et al., <i>Chemical Engineering Science</i> , 52(2):237-244 (January 1997) (Abstract)	
	C3	Borchardt et al., <i>Chemistry & Biology</i> , 4(12):961-968 (1997)	
	C4	Chin et al., <i>Trans. ASME J. Eng. Gas Turbines Power</i> , 106:639-644 (1983)	
	C5	Cloupeau et al. (1989), <i>J. Electrostat</i> 22:135-159	
	C6	Fernández de la Mora et al. (1994), <i>J. Fluid Mech.</i> 260:155-184	
	C7	Forbes et al., <i>J. Austral. Math. Soc. Ser. B.</i> , 32:231-249 (1990)	
	C8	Gañán-Calvo et al. (1997), <i>J. Aerosol Sci.</i> 28:249-275	
	C9	Gauthier, <i>Optics & Laser Technology</i> , 29(7): 389-399 (October 1997)	
	C10	Hartman et al. (1997), "Electrohydrodynamic Atomization in the Cone-Jet Mode," Paper presented at the ESF Workshop on Electrospray, Sevilla, 28 Feb.-1 Mar. 1997 [see also the papers contained in the Special Issue for Electrosprays (1994)]	
	C11	Huck et al., <i>Journal of American Chemical Society</i> pp. 8267-8268 (1998)	
	C12	Jasuja, <i>ASME Paper</i> 82-GT-32 (1982)	
	C13	Liu et al. (1974), <i>J. Colloid Interface Sci.</i> 47:155-171	
	C14	Lorenzetto et al., <i>AIAA J.</i> , 15:1006-1010 (1977)	
	C15	Nukiyama et al., <i>Trans. Soc. Mech. Eng. Jpn.</i> , 5:68-75 (1939)	
	C16	Lord Rayleigh (1879), <i>Proc. London Math. Soc.</i> 10:4-13	
	C17	Service et al., (1997), <i>Science</i> , 277:1199-1200	
	C18	Singler et al., <i>Phys. Fluids A</i> , 5:1156-1166 (1993)	
AGP	C19	Tuck et al., <i>J. Austral. Math. Soc. Ser. B.</i> , 25:433-450 (1984)	

	C20	Onal, Metall. Trans. B., 20B:613-622 (1989)	
	C21	Whitesides et al., Science 254:1312-9 (1991)	
	C22	Wigg, J. Inst. Fuel, 27:500-505 (1964)	
	C23	Winfrey et al., Nature, 394:539-44 (1998)	
	C24	Spanish Application No. 9702117 (not published) and English Translation thereof	

Examiner Signature		Date Considered	6/20/05
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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